

GenCore version 5.1.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 9, 2005, 17:36:14 ; Search time 0.5 Seconds
(without alignments)
1.742 Million cell updates/sec

Title: US-09-824-134-1
Perfect score: 3092
Sequence: 1 GTGAATCAGCAGCGAGTG.....ACAAAAA.....1701

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1 seqs, 256 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame_n2p.model -DRV=soft -Q=US09824134.seq -DB=US09824134.pep
-SUFFIX=ptc -OUT=US09824134-1-land2-align -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000 -NCPU=6
-NO_XLPXY -NEG SCORES=0 -LONGLOG -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : US09824134.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1302	42.1	256	1	US-09-824-134-2
2	48	1.6	256	1	US-09-824-134-2

ALIGNMENTS

RESULT 1
US-09-824-134-2
; Sequence 2, Application US/09824134
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; BOLDIN, Mark
; VARFOLOMBEV, Eugene
; METT, Igor
; TITLE OF INVENTION: MODULATORS OF THE FUNCTION OF FAS/APO1
; RECEPTORS
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street N.W., Ste. 300
; CITY: Washington

STATE: D.C.
COUNTRY: United States of America
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,134
FILING DATE: 03-Apr-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/860,082
FILING DATE: <Unknown>
APPLICATION NUMBER: IL 112022
FILING DATE: 15-DEC-1994
APPLICATION NUMBER: IL 112692
FILING DATE: 19-FEB-1995
APPLICATION NUMBER: IL 114615
FILING DATE: 16-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=16
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-5197
TELEFAX: (202) 737-3528
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 256 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-824-134-2
Alignment Scores:
Pred. No.: 0 Length: 256
Score: 1302.00 Matches: 256
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 42.11% Indels: 0
DB: 1 Gaps: 0
US-09-824-134-1 (1-1701) x US-09-824-134-2 (1-256)
QY 1 GTGAATCAGCAGCGAGTGCGAGTTCGGGGTGGATCCTTGGGCGCTGGCGACGCG 60
DB 1 ValAsnGlnAlaProGluCysArgPheGlyGlyIleLeuGlyProLeuGlyIlyAsArg 20
QY 61 CGAGACCTGGCCAGGCGCAGCGAGCGAGGAGGCGCGGAGGCGCGCGCGCGCAG 120
DB 21 ArgAspLeuAlaArgAlaSerGluProArgThrGluGlyAlaArgAlaGlyProGln 40
QY 121 CCCCAGCCCTTGCAGACCCCGCCATGGACCCGCTTCTGGTGTCTGCTGCACTCGGTGTCG 180
DB 41 ProArgProLeuAlaAspProAlaMetAspProPheLeuValLeuLeuHisSerValSer 60
QY 181 TCCAGCCTGTGCAGCAGCGAGCTGACCGAGCTCAAGTTCCTATGCTCCGCGCGCGTGGTC 240
DB 61 SerSerLeuSerSerSerGluLeuThrGluLeuLysPheLeuLeuCysLeuGlyArgValVal 80
QY 241 AAGCGCAAGCTGGAGCGCGTGCAGAGCGCGCTAGACCTCTTCTCCATGTCTGCTGGAGCAG 300
DB 81 LysArgLysLeuGluArgValGlnSerGlyLeuAspLeuPheSerMetLeuLeuGluGln 100
QY 301 AAGACCTTGGAGCCCGGCGACACCGAGCTCTCTGCGAGCTGCTCGCTCCCTCGCGCGC 360
DB 101 AsnAspLeuGluProGlyHisThrGluLeuLeuArgGluLeuAlaSerLeuArgArg 120
QY 361 CAGGACCTGTCGGCGCGCTGCAGCAGCTTCGAGCGCGGCGCGCGCGCGCGCGCGCT 420
DB 121 HisAspLeuLeuArgArgValAspPheGluAlaGlyAlaAlaGlyAlaAlaPro 140

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 11, 2005, 11:53:56 ; Search time 74 Seconds
(without alignments)
606.273 Million cell updates/sec

Title: US-09-824-134-2_COPY_130_245

Perfect score: 593

Sequence: 1 FEAGAAAGAPGEEDLCFAF.....QEYQQAQDLQNRGAMSPMS.116

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseq_16Dec04.*

- 1: geneseqp1980s.*
- 2: geneseqp1980s.*
- 3: geneseqp2000s.*
- 4: geneseqp2000s.*
- 5: geneseqp2002s.*
- 6: geneseqp2003as.*
- 7: geneseqp2003bs.*
- 8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	593	100.0	208	2	AAW03653 FADD (Fas
2	593	100.0	208	2	AAW96154 Human FAD
3	593	100.0	208	3	AAW51329 Human FAD
4	593	100.0	208	4	AAW84804 Human FAD
5	593	100.0	208	6	ABR62711 Human FAD
6	593	100.0	208	7	ADD25629 Binding d
7	593	100.0	208	7	ADD25623 Binding d
8	593	100.0	208	8	ABM81285 Tumour-as
9	593	100.0	208	8	ADS88167 Human pro
10	593	100.0	211	7	ADD25847 Binding d
11	593	100.0	256	2	AAW98346 MORT-1 mo
12	593	100.0	256	2	AAW11894 Modulator
13	589	99.3	201	2	AAW87492 Amino aci
14	589	99.3	208	2	AAW87493 Amino aci
15	586	98.8	201	2	AAW87491 Amino aci
16	586	98.8	208	4	AAW61119 Human FAD
17	382.5	64.5	205	4	AAW61900 Mouse apo
18	382.5	64.5	210	7	ADD25857 Binding d
19	382	64.4	74	6	ADA49711 Death dom
20	380.5	64.2	205	6	ABR62712 Mouse PAD
21	357.5	60.3	117	4	AAW61902 Mouse apo
22	351	59.2	95	5	ABG75682 Fas-assoc
23	346	58.3	99	5	ABB81754 Tumour ne
24	331	55.8	93	5	ABG75684 Fas-assoc
25	331	55.8	93	5	ABG75685 Fas-assoc

ALIGNMENTS

RESULT 1

AAW03653

ID AAW03653 standard; protein; 208 AA.

XX AC AAW03653;

XX 22-FEB-1997 (first entry)

XX FADD (Fas-associating protein with novel death domain) protein.

XX Human; FADD; Fas-associating protein with novel death domain; apoptosis;

XX Fas receptor; death domain; gene therapy; antibody; immunocassay;

XX drug screening; diagnostic; AIDS; antiinflammatory; antitumour;

XX cerebroprotective; neuroprotective.

XX Homo sapiens.

XX Key

XX Region

XX Location/Qualifiers

XX 1..125

XX /note= "N-terminal fragment, inducing apoptosis but not

XX binding to Fas receptor"

XX 35..208

XX /note= "C-terminal active fragment"

XX 41..208

XX /note= "C-terminal active fragment"

XX 42..208

XX /note= "Fas receptor-binding NFD-2 polypeptide"

XX 61..208

XX /note= "Fas receptor-binding NFD-3 polypeptide"

XX 80..208

XX /note= "Fas receptor-binding NFD-4 polypeptide"

XX 111..177

XX /note= "Death domain"

XX Misc-difference 121

XX /note= "Altered to Asn in FADDmt mutant"

XX WO9631603-A2.

XX 10-OCT-1996.

XX 28-FEB-1996; 96WO-US002857.

XX 03-APR-1995; 95US-00416379.

XX 18-MAY-1995; 95US-0043982.

XX (UNMI) UNIV MICHIGAN.

XX Dixit VM, Orourke K;

PI

26	325	54.8	93	5	ABG75683	Abg75683 Fas-assoc
27	318	53.6	62	2	AAW00210	AAW00210 Human MOR
28	136.5	23.0	88	7	ADG42592	ADG42592 NOVI doma
29	131	22.1	75	7	ADG42594	ADG42594 NOVI doma
30	115.5	19.5	656	2	AAW04627	AAW04627 Mouse rec
31	115.5	19.5	656	2	AAW80994	AAW80994 Human rec
32	114.5	19.3	1034	8	ADR08537	ADR08537 Human pro
33	114.5	19.3	1536	6	ABU11523	ABU11523 Human MDD
34	114.5	19.3	1880	8	ADR90358	ADR90358 Full leng
35	114.5	19.3	1881	7	ADD47763	ADD47763 Human pro
36	114	19.2	239	4	ABG62302	ABG62302 Drosophil
37	111.5	18.8	99	7	ADC08901	ADC08901 Recombina
38	111.5	18.8	100	7	ADC08899	ADC08899 Recombina
39	111.5	18.8	273	7	ADM05095	ADM05095 Human pro
40	111.5	18.8	671	2	AAW15461	AAW15461 Human rec
41	111.5	18.8	671	2	AAW04628	AAW04628 Human rec
42	111.5	18.8	671	3	AAW78502	AAW78502 Human RIP
43	111.5	18.8	671	4	AAW82091	AAW82091 Human Rec
44	111.5	18.8	671	4	AAW16302	AAW16302 Novel hum
45	111.5	18.8	671	5	AAU80370	AAU80370 Human cel

XX WPI; 1996-465026/46.
 DR N-PSDB; AAT39397.
 XX
 PT FADD protein that binds to cytoplasmic region of Fas receptor - for
 PT identifying inhibitors of Fas-associated apoptosis useful for treating
 PT e.g. AIDS, leukaemia, stroke, etc.
 XX
 PS Example 1; Fig 2A-B; 96pp; English.
 XX
 CC The sequence corresponds to FADD (Fas-associating protein with novel
 CC death domain), which binds the cytoplasmic region of a Fas receptor, and
 CC modulates apoptosis induced by activation of the receptor by ligand
 CC binding. The FADD cDNA has been isolated using a yeast two-hybrid system
 CC to screen for proteins interacting with the Fas cytoplasmic domain. The
 CC protein contains a death domain, which interacts with the death domain of
 CC Fas. Mutation of Val-121 to Asn in mutant FADDmt disrupts binding and/or
 CC signalling properties. C-terminal polypeptides NFD-2, NFD-3 and NFD-4
 CC bind the Fas receptor cytoplasmic domain in vitro. An N-terminal fragment
 CC induces apoptosis but does not bind the Fas receptor. The encoding DNA
 CC may be used in gene therapy, and the protein or a corresponding antibody
 CC may be used to screen for agents modulating FADD pathway cellular
 CC functions and Fas-associated apoptosis, for use in therapy of e.g. AIDS,
 CC inflammation, leukaemia, myocardial infarction, degenerative disease, etc
 XX
 SQ Sequence 208 AA;

Query Match 100.0%; Score 593; DB 2; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 60
 DB 82 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 141
 QY 61 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116
 DB 142 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 2
 ID AAW96154 standard; protein; 208 AA.
 XX
 AC AAW96154;
 XX
 DT 27-APR-1999 (first entry)
 DE Human FADD protein.

XX FIP; FADD interacting protein; FADD;
 KW Fas-associated protein with a novel death domain; cell death; apoptosis;
 KW Alzheimer's disease; Acquired Immune Deficiency Syndrome; AIDS;
 KW muscular dystrophy; amyotrophic lateral sclerosis; virus; bacteria;
 KW fungus; mycoplasma; protozoa; neoplasia; dysplasia; hyperplasia.
 XX
 OS Homo sapiens.

XX WO9900499-A1.
 FN
 XX
 PD 07-JAN-1999.
 XX

XX 26-JUN-1998; 98WO-US013320.
 XX
 PR 26-JUN-1997; 97US-0050792P.
 PR 03-JUN-1998; 98US-0087886P.
 XX

PA (CHIR) CHIRON CORP.
 XX

PI Chen TT, Williams LT;
 XX

XX WPI; 1999-095745/08.
 DR N-PSDB; AAX08910.
 DR

XX New FADD (Fas-associated protein with a novel death domain)-Interacting
 PT Protein - useful for inducing or preventing apoptosis in a cell, to aid
 PT in controlling apoptosis-related diseases.
 XX
 PS Disclosure; Page 47; 58pp; English.

XX An epitope of human FADD (Fas-associated protein with a novel death
 CC domain)-Interacting protein (FIP protein) comprising amino acids 348-727
 CC of the protein described in AAW96153, can be used to induce or prevent
 CC apoptosis in a cell. Specifically, decreasing the levels of FIP348-727
 CC prevents apoptosis. This is useful in cells which are dying prematurely,
 CC eg: Alzheimer's disease, Acquired Immune Deficiency Syndrome (AIDS),
 CC muscular dystrophy, amyotrophic lateral sclerosis (and other muscle
 CC wasting diseases), autoimmune diseases, and diseases where cells are
 CC infected with a pathogen (virus, bacteria, fungus, mycoplasma or
 CC protozoa). Increasing the levels of FIP 348-727 induces apoptosis which
 CC is useful in cells suffering from neoplasias, dysplasias, hyperplasias,
 CC or their symptoms. Purified and isolated FIP subgenomic polynucleotides,
 CC are useful as primers to obtain more copies of the nucleotides, and as
 CC probes that identify wild-type or mutant coding sequences. They are also
 CC useful for expressing FIP mRNA, proteins or fusion proteins, and in the
 CC generation of FIP antisense oligonucleotides and ribozymes. They are also
 CC useful in expression constructs and in gene delivery vehicles (optionally
 CC in combination with a condensing agent) that deliver FIP mRNA or
 CC oligonucleotides, FIP proteins (including variants), FIP-specific
 CC ribozymes or single-chain antibodies into eukaryotic cells. This is the
 CC human FADD protein. Human FIP protein binds to amino acids 1-110 of this
 CC sequence

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 2; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 60
 DB 82 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 141
 QY 61 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116
 DB 142 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 3
 AAY51329
 ID AAY51329 standard; protein; 208 AA.
 XX
 AC AAY51329;
 XX

DT 19-APR-2000 (first entry)
 XX

DE Human FADD protein.

XX FADD; human; antisense; inhibitor; Fas-associated death domain.

XX Homo sapiens.

XX US6015712-A.

XX 18-JAN-2000.

XX 19-JUL-1999; 99US-00357072.

XX 19-JUL-1999; 99US-00357072.

XX (ISIS-) ISIS PHARM INC.

XX Monia BP, Cowser LM, Baker BF, Zhang H;

XX WPI; 2000-126316/11.

DR N-PSDB; AAZ44745.
 DR

XX Antisense oligonucleotides, useful for inhibiting human Fas-associated
 PT death domain (FADD) expression are targeted to the 3' untranslated region
 PT of the FADD gene.
 XX
 XX
 PS Example 13; Col 43-46; 37pp; English.
 XX
 XX This invention describes novel antisense oligonucleotides (OGNs) (I) 8-20
 CC nucleotides in length that specifically hybridize with and inhibit
 CC nucleic acids encoding human Fas-associated death domain (FADD), targeted
 CC to the 3' untranslated region (3'UTR). (I) can be used to treat animals,
 CC especially humans, suspected of having or being prone to a disease or
 CC condition associated with FADD expression. This sequence represents the
 CC human FADD protein described in the method of the invention
 XX

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 3; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRLARQLKVS DTKIDSIEDRYPRNLTERV 60
 |||||
 DB 82 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRLARQLKVS DTKIDSIEDRYPRNLTERV 141
 |||||
 QY 61 RESLRWKNTKENATVAHLVGALRSQCNMLVADLVQEVQOARDLQNRSGAMSPMS 116
 |||||
 DB 142 RESLRWKNTKENATVAHLVGALRSQCNMLVADLVQEVQOARDLQNRSGAMSPMS 197
 |||||

RESULT 4

AAB84804
 ID AAB84804 standard; protein; 208 AA.

XX AAB84804;

XX 12-JUL-2001 (first entry)

XX Human FADD prodomain.

XX NF-kappaB; JNK; apoptosis; death effector domain; DED.

XX Homo sapiens.

XX USC207458-B1.

XX 27-MAR-2001.

XX 07-MAY-1998; 98US-00074044.

XX 07-MAY-1998; 98US-00074044.

XX (UNIW) UNIV WASHINGTON.

XX Chaudhary PM, Hood L;

XX WPI; 2001-342087/36.

XX Testing candidate compound affecting cellular NFkappaB JNK, apoptosis
 PT activity by comparing cell activity in presence and absence of
 PT proteinaceous species having two death effector domain and test compound.
 XX

PS Disclosure; Col 51-52; 62pp; English.

XX The present invention relates to testing candidate compounds to determine
 CC whether they affect NF-kappaB, JNK and apoptosis activity. The method
 CC involves the use of 2 death effector domains (DED). The compounds
 CC identified by the invention have therapeutic applications and are useful
 CC for regulating cellular NFkappaB, JNK and apoptosis activity. The assay
 CC is useful for identifying pharmacological agents or lead compounds
 CC generally involved in assaying for compounds which regulate or modulate a
 CC cell activity. The present sequence is a prodomain used in the invention
 XX

SQ Sequence 208 AA;

Query Match 100.0%; Score 593; DB 4; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRLARQLKVS DTKIDSIEDRYPRNLTERV 60
 |||||
 DB 82 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRLARQLKVS DTKIDSIEDRYPRNLTERV 141
 |||||
 QY 61 RESLRWKNTKENATVAHLVGALRSQCNMLVADLVQEVQOARDLQNRSGAMSPMS 116
 |||||
 DB 142 RESLRWKNTKENATVAHLVGALRSQCNMLVADLVQEVQOARDLQNRSGAMSPMS 197
 |||||

RESULT 5

ABR62711
 ID ABR62711 standard; protein; 208 AA.

XX ABR62711;

XX 06-NOV-2003 (first entry)

XX Human FADD.

XX FADD; human; tumour; marker; diagnosis; prognosis; thyroid.

XX Homo sapiens.

XX WO2003056340-A2.

XX 10-JUL-2003.

XX 23-DEC-2002; 2002WO-EP014906.

XX 24-DEC-2001; 2001EP-00403359.

XX 22-OCT-2002; 2002EP-00292619.

XX (INRM) INSERM INST NAT SANTE & RECH MEDICALE.

XX (CNRS) CNRS CENT NAT RECH SCI.

XX Chiocchia G, Tourneur L, Feunteun J, Michiels F, Buzyn A;

XX WPI; 2003-645962/61.

XX Use of Fas associated protein with dead domain, and cellular
 PT phosphorylated p38-mitogen activated protein kinases as a biological
 PT indicator of tumor status.

XX Disclosure; Fig 7; 118pp; English.

XX The present sequence is the protein sequence of human Fas-associated
 CC protein with death domain (FADD). The invention relates to the use of
 CC FADD and phosphorylated p38-MAPK as markers for the absence of in vivo
 CC tumour. This use may be complemented by the use of the Fas ligand (FasL)
 CC as a marker for presence of in vivo tumour. The amounts of FADD proteins
 CC and phosphorylated p38-MAPK decrease, sometimes down to zero, with tumour
 CC development, while FasL expression is gained. FADD proteins are secreted
 CC from tumour cells. A low cellular amount and a high extracellular amount
 CC of FADD proteins are prognostic of resistance to chemotherapy. The
 CC invention provides methods for determining a status of tumour
 CC absence/presence, and for prognosis of the resistance of a tumour to
 CC chemotherapy on the basis of these findings
 XX

SQ Sequence 208 AA;

Query Match 100.0%; Score 593; DB 6; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRLARQLKVS DTKIDSIEDRYPRNLTERV 60
 |||||
 DB 82 FEAGAAAGAPGEEDLCAAFNVICDVGKDWRLARQLKVS DTKIDSIEDRYPRNLTERV 141
 |||||

QY 61 RESLRWKTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116
 DB 142 RESLRWKTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 6
 ADD25629
 ID ADD25629 standard; protein; 208 AA.
 AC ADD25629;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE Binding domain-immunoglobulin fusion protein-associated protein #92.
 XX
 KW Binding domain; immunoglobulin; fusion protein; cytostatic;
 KW antiarthritic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1;
 KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
 KW malignant condition; B-cell disorder; melanoma; carcinoma; sarcoma;
 KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 PN US2003118592-A1.
 XX
 PD 26-JUN-2003.
 XX
 XX 25-JUL-2002; 2002US-00207655.
 XX
 PR 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-00053530.
 PR 03-JUN-2002; 2002US-0385691P.
 XX
 PA (GENE-) GENE-CRAFT INC.
 XX
 PI Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 XX
 DR WPI; 2003-801317/75.
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX
 PS Disclosure; SEQ ID NO 190; 157pp; English.
 XX
 CC The invention relates to a binding domain-immunoglobulin fusion protein
 CC comprising a binding domain polypeptide that is fused to an
 CC immunoglobulin hinge region polypeptide, an immunoglobulin heavy chain
 CC CH2 constant region polypeptide that is fused to the hinge region
 CC polypeptide, and an immunoglobulin heavy chain CH3 constant region
 CC polypeptide that is fused to the CH2 constant region polypeptide. The
 CC hinge region polypeptide comprises: a wild-type human IgG1 immunoglobulin
 CC hinge region polypeptide; a mutated human IgG1 immunoglobulin hinge
 CC region polypeptide, derived from (a) having 3 or more cysteine residues;
 CC where the mutated human IgG1 immunoglobulin hinge region polypeptide
 CC contains 2 cysteine residues, where the first cysteine is not mutated; a
 CC mutated human IgG1 immunoglobulin hinge region polypeptide, derived from
 CC (a) having 3 or more cysteine residues, where the mutated human IgG1
 CC immunoglobulin hinge region polypeptide contains no more than one
 CC cysteine residue; and a mutated human IgG1 immunoglobulin hinge region
 CC polypeptide, derived from (a) having 3 or more cysteine residues; where
 CC the mutated human IgG1 immunoglobulin hinge region polypeptide contains
 CC no cysteine residues. The binding domain-immunoglobulin fusion protein is
 CC capable of at least one immunological activity comprising antibody
 CC dependent cell-mediated cytotoxicity (ADCC) and complement fixation. The
 CC binding domain polypeptide is capable of specifically binding to an
 CC antigen. Also included are an isolated polynucleotide encoding the
 CC binding domain-immunoglobulin fusion protein, a recombinant expression
 CC construct comprising the polynucleotide (operably linked to a promoter),

CC a host cell transformed or transfected with a recombinant expression
 CC construct, producing the binding domain-immunoglobulin fusion protein, a
 CC pharmaceutical composition comprising the binding domain-immunoglobulin
 CC fusion protein or polynucleotide and a carrier, and treating a subject
 CC having or suspected of having a malignant condition or a B-cell disorder.
 CC The binding domain-immunoglobulin fusion protein is useful for treating a
 CC subject having or suspected of having a malignant condition or a B-cell
 CC disorder, e.g. melanoma, carcinoma or sarcoma, rheumatoid arthritis,
 CC myasthenia gravis, Grave's disease, type I diabetes mellitus, multiple
 CC sclerosis or autoimmune disease. The present sequence is a binding domain
 CC -immunoglobulin fusion protein-associated protein sequence. Note: The
 CC sequence data for this patent formed part of the printed specification
 CC and is also available in electronic format directly from USPTO at
 CC segdata.uspto.gov/sequence.html?DocID=20030118592. The authors have not
 CC identified the sequences in the printed specification by their SEQ ID
 CC number therefore none of the sequences can be explicitly identified.

XX
 SQ Sequence 208 AA;
 Query Match 100.0%; Score 593; DB 7; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGGEEDLCAAFNVICDNVGVKDWRRRLARQLKVSIDTKIDSDRYPRNLTERV 60
 DB 82 FEAGAAAGAAAGGEEDLCAAFNVICDNVGVKDWRRRLARQLKVSIDTKIDSDRYPRNLTERV 141
 QY 61 RESLRWKTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116
 DB 142 RESLRWKTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 7
 ADD25629
 ID ADD25629 standard; protein; 208 AA.
 AC ADD25629;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE Binding domain-immunoglobulin fusion protein-associated protein #89.
 XX
 KW Binding domain; immunoglobulin; fusion protein; cytostatic;
 KW antiarthritic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1;
 KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
 KW malignant condition; B-cell disorder; melanoma; carcinoma; sarcoma;
 KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 PN US2003118592-A1.
 XX
 PD 26-JUN-2003.
 XX
 XX 25-JUL-2002; 2002US-00207655.
 XX
 PR 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-00053530.
 PR 03-JUN-2002; 2002US-0385691P.
 XX
 PA (GENE-) GENE-CRAFT INC.
 XX
 PI Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 XX
 DR WPI; 2003-801317/75.
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX

PS Disclosure; SEQ ID NO 184; 157pp; English.

XX The invention relates to a binding domain-immunoglobulin fusion protein
CC comprising a binding domain polypeptide that is fused to an
CC immunoglobulin hinge region polypeptide, an immunoglobulin heavy chain
CC CH2 constant region polypeptide that is fused to the hinge region
CC polypeptide, and an immunoglobulin heavy chain CH3 constant region
CC polypeptide that is fused to the CH2 constant region polypeptide. The
CC hinge region polypeptide comprises: a wild-type human IgG1 immunoglobulin
CC hinge region polypeptide; a mutated human IgG1 immunoglobulin hinge
CC region polypeptide, derived from (a) having 3 or more cysteine residues;
CC where the mutated human IgG1 immunoglobulin hinge region polypeptide
CC contains 2 cysteine residues, where the first cysteine is not mutated; a
CC mutated human IgG1 immunoglobulin hinge region polypeptide, derived from
CC (a) having 3 or more cysteine residues, where the mutated human IgG1
CC immunoglobulin hinge region polypeptide contains no more than one
CC cysteine residue; and a mutated human IgG1 immunoglobulin hinge region
CC polypeptide, derived from (a) having 3 or more cysteine residues; where
CC the mutated human IgG1 immunoglobulin hinge region polypeptide contains
CC no cysteine residues. The binding domain-immunoglobulin fusion protein is
CC capable of at least one immunological activity comprising antibody
CC dependent cell-mediated cytotoxicity (ADCC) and complement fixation. The
CC binding domain polypeptide is capable of specifically binding to an
CC antigen. Also included are an isolated polynucleotide encoding the
CC binding domain-immunoglobulin fusion protein, a recombinant expression
CC construct comprising the polynucleotide (operably linked to a promoter),
CC a host cell transformed or transfected with a recombinant expression
CC construct, producing the binding domain-immunoglobulin fusion protein, a
CC pharmaceutical composition comprising the binding domain-immunoglobulin
CC fusion protein or polynucleotide and a carrier, and treating a subject
CC having or suspected of having a malignant condition or a B-cell disorder.
CC The binding domain-immunoglobulin fusion protein is useful for treating a
CC subject having or suspected of having a malignant condition or a B-cell
CC disorder, e.g. melanoma, carcinoma or sarcoma, rheumatoid arthritis,
CC myasthenia gravis, Grave's disease, type I diabetes mellitus, multiple
CC sclerosis or autoimmune disease. The present sequence is a binding domain
CC -immunoglobulin fusion protein-associated protein sequence. Note: The
CC sequence data for this patent formed part of the printed specification
CC and is also available in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=20030118592. The authors have not
CC identified the sequences in the printed specification by their SEQ ID
CC number therefore none of the sequences can be explicitly identified.

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 7; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDNVKGDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 60
DB 82 FEAGAAAGAPGEEDLCAAFNVICDNVKGDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 141
QY 61 RESLRWKNTEKENATVAHLVGLRSCQMLVADLVQEVQOARDLQNRSGAMSPMS 116
DB 142 RESLRWKNTEKENATVAHLVGLRSCQMLVADLVQEVQOARDLQNRSGAMSPMS 197

RESULT 8

ABM81285

ID ABM81285 standard; protein; 208 AA.

XX ABM81285;

XX 18-NOV-2004 (first entry)

XX Tumour-associated antigenic target (TAT) polypeptide PRO4801, SEQ:3314.

XX Tumour-associated antigenic target; TAT; human; overexpression; cancer;
KW tumour; diagnosis; cell proliferative disorder; breast cancer;
KW colorectal cancer; lung cancer; ovarian cancer; liver cancer;
KW central nervous system cancer; bladder cancer; pancreatic cancer;
KW cervical cancer; melanoma; leukaemia; hybridisation probe;

KW chromosome identification; chromosome mapping; gene mapping;
KW gene therapy; cytostatic.

XX Homo sapiens.

XX WO2004030615-A2.

XX 15-APR-2004.

XX 29-SEP-2003; 2003WO-US028547.

XX 02-OCT-2002; 2002US-0414971P.

XX (GETH) GENENTECH INC.

XX Wu TD, Zhang Z, Zhou Y;

XX WPI; 2004-347921/32.

XX N-PSDB; ACN39272.

XX New tumor-associated antigenic target polypeptides and nucleic acids,
PT useful in preparing a medicament for treating or detecting a
PT proliferative disorder, e.g. breast, lung, colorectal, ovarian or
PT prostate cancer or tumor.

XX Claim 12; SEQ ID NO 3314; 7273pp; English.

XX The invention relates to human tumour-associated antigenic target (TAT)
CC polypeptides, and their related nucleic acids. The TAT polypeptides are
CC overexpressed in cancer tissues compared to normal tissues, and may thus
CC serve as effective targets for the diagnosis and treatment of cancer in
CC mammals. The invention also relates to nucleic acid and polypeptide
CC sequences at least 80% identical to the TAT nucleic acids and
CC polypeptides; expression vectors and host cells comprising a TAT nucleic
CC acid; an antibody specific for a TAT polypeptide; a peptide or organic
CC molecule which binds to a TAT polypeptide; fusion proteins comprising a
CC TAT polypeptide; and methods and compositions for the treatment or
CC diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
CC antibodies, antagonists, binding molecules and compositions are useful
CC for diagnosing or treating a cell proliferative disorder associated with
CC increased TAT expression, particularly cancers such as breast cancer,
CC colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
CC cancer, pancreatic cancer, cervical cancer, cancers of the central
CC nervous system, melanoma and leukaemia. TAT nucleic acids may further be
CC used as hybridisation probes, in chromosome and gene mapping, in
CC chromosome identification and in gene therapy. The present sequence
CC represents a TAT polypeptide of the invention

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 8; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDNVKGDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 60
DB 82 FEAGAAAGAPGEEDLCAAFNVICDNVKGDWRRRLARQLKVSDDTKIDSIEDRYPRNLTERV 141

QY 61 RESLRWKNTEKENATVAHLVGLRSCQMLVADLVQEVQOARDLQNRSGAMSPMS 116

DB 142 RESLRWKNTEKENATVAHLVGLRSCQMLVADLVQEVQOARDLQNRSGAMSPMS 197

RESULT 9

ADS88167

ID ADS88167 standard; protein; 208 AA.

XX ADS88167;

XX 18-NOV-2004 (first entry)

XX Human protein of a TNF-alpha signalling pathway protein complex SeqID 22.

KW protein complex; tumour necrosis factor-alpha signalling pathway;
 KW TNF-alpha; chronic inflammatory disease; rheumatoid arthritis;
 KW inflammatory bowel disease; infectious disease; septic shock;
 KW bacterial infection; neurological disease; stroke-induced inflammation;
 KW neurodegenerative disease; cancer; antiinflammatory; antiarthritic;
 KW antirheumatic; cytostatic; antibacterial; gene therapy; human.
 XX Homo sapiens.
 OS
 XX WO2004035783-A2.
 PN
 XX 29-APR-2004.
 XX
 XX 24-SEP-2003; 2003WO-EP050655.
 XX
 XX 26-SEP-2002; 2002EP-00021809.
 PR
 XX 10-FEB-2003; 2003EP-00100274.
 XX
 XX (CELL-) CELLZOME AG.
 PA
 XX Boumeester T, Huhse B, Bauch A, Ruffner H, Bauer A, Kuester B;
 PI Superti-Furga G, Kruse U;
 XX
 XX WPI; 2004-348460/32.
 DR
 XX
 PT New protein complex comprising at least one first and second protein of
 PT the Tumor Necrosis Factor-alpha (TNF-alpha)-signaling pathway, useful for
 PT diagnosing or treating inflammation, neurological diseases, infectious
 PT diseases or cancer.
 PT
 PS Example; SEQ ID NO 22; 1980pp; English.
 XX
 CC This invention relates to novel protein complexes of the tumour necrosis
 CC factor-alpha (TNF-alpha) signalling pathway. Specifically, it refers to
 CC methods for preparing these complexes comprising at least two component
 CC proteins, as well as screening methods to identify modulators of the
 CC pathway, which include antibodies, agonists and antagonists thereof. The
 CC present invention describes a protein complex and kit that are useful for
 CC diagnosing, prognosing or treating chronic inflammatory diseases such as
 CC rheumatoid arthritis and inflammatory bowel disease; infectious diseases
 CC such as septic shock and bacterial infections; neurological diseases such
 CC as stroke-induced inflammation in neurons; neurodegenerative diseases and
 CC cancer. Accordingly, these complexes can be used for the development of
 CC pharmaceutical compositions that exhibit antiinflammatory, antiarthritic,
 CC antirheumatic, cytostatic and antibacterial activities and can be used
 CC for gene therapy purposes. In particular, the invention further provides
 CC siRNA-oligonucleotides useful for inhibiting protein expression for in
 CC vitro or cell culture assays. This polypeptide is a human protein that
 CC can be used in combination with other proteins provided in the
 CC specification to form novel complexes of the TNF-alpha signalling pathway
 CC of the invention.
 CC
 XX Sequence 208 AA;
 SQ
 Query Match 100.0%; Score 593; DB 8; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FEAGAAAGAAAGGEEEDLCAAFNVICDNGKDWRRRLAROLKVSDFKIDSDIEDYPRNLTGV 60
 DB 82 FEAGAAAGAAAGGEEEDLCAAFNVICDNGKDWRRRLAROLKVSDFKIDSDIEDYPRNLTGV 141
 QY 61 RESLRWKNTKEKATVAHLVGLARSCQNNLVADLVQVQQAARDLQNRGAMSPMS 116
 DB 142 RESLRWKNTKEKATVAHLVGLARSCQNNLVADLVQVQQAARDLQNRGAMSPMS 197
 RESULT 10
 ADD25847
 ID ADD25847 standard; protein; 211 AA.
 XX
 AC ADD25847;
 XX

DT 15-JAN-2004 (first entry)
 XX
 DE Binding domain-immunoglobulin fusion protein-associated protein #183.
 DE
 XX Binding domain; immunoglobulin; fusion protein; cytostatic;
 KW antiarthritic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1; ADCC; complement fixation;
 KW antibody dependent cell-mediated cytotoxicity; melanoma; sarcoma;
 KW malignant condition; B-cell disorder; Grave's disease;
 KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 XX US2003118592-A1.
 PN
 XX 26-JUN-2003.
 XX
 XX 25-JUL-2002; 2002US-00207655.
 PF
 XX 17-JAN-2001; 2001US-0367358P.
 PR
 XX 17-JAN-2002; 2002US-00053530.
 PR
 XX 03-JUN-2002; 2002US-0385691P.
 XX
 XX (GENE-) GENE-CRAFT INC.
 PA
 XX Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 PI
 XX WPI; 2003-801317/75.
 DR
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 PT
 XX Disclosure; SEQ ID NO 408; 157pp; English.
 PS
 XX The invention relates to a binding domain-immunoglobulin fusion protein
 CC comprising a binding domain polypeptide that is fused to an
 CC immunoglobulin hinge region polypeptide, an immunoglobulin heavy chain
 CC CH2 constant region polypeptide that is fused to the hinge region
 CC polypeptide, and an immunoglobulin heavy chain CH3 constant region
 CC polypeptide that is fused to the CH2 constant region polypeptide. The
 CC hinge region polypeptide comprises: a wild-type human IgG1 immunoglobulin
 CC hinge region polypeptide; a mutated human IgG1 immunoglobulin hinge
 CC region polypeptide, derived from (a) having 3 or more cysteine residues;
 CC where the mutated human IgG1 immunoglobulin hinge region polypeptide
 CC contains 2 cysteine residues, where the first cysteine is not mutated; a
 CC mutated human IgG1 immunoglobulin hinge region polypeptide, derived from
 CC (a) having 3 or more cysteine residues, where the mutated human IgG1
 CC immunoglobulin hinge region polypeptide contains no more than one
 CC cysteine residue; and a mutated human IgG1 immunoglobulin hinge region
 CC polypeptide, derived from (a) having 3 or more cysteine residues; where
 CC the mutated human IgG1 immunoglobulin hinge region polypeptide contains
 CC no cysteine residues. The binding domain-immunoglobulin fusion protein is
 CC capable of at least one immunological activity comprising antibody
 CC dependent cell-mediated cytotoxicity (ADCC) and complement fixation. The
 CC binding domain polypeptide is capable of specifically binding to an
 CC antigen. Also included are an isolated polynucleotide encoding the
 CC binding domain-immunoglobulin fusion protein, a recombinant expression
 CC construct comprising the polynucleotide (operably linked to a promoter),
 CC a host cell transformed or transfected with a recombinant expression
 CC construct, producing the binding domain-immunoglobulin fusion protein, a
 CC pharmaceutical composition comprising the binding domain-immunoglobulin
 CC fusion protein or polynucleotide and a carrier, and treating a subject
 CC having or suspected of having a malignant condition or a B-cell disorder.
 CC The binding domain-immunoglobulin fusion protein is useful for treating a
 CC subject having or suspected of having a malignant condition or a B-cell
 CC disorder, e.g. melanoma, carcinoma or sarcoma, rheumatoid arthritis,
 CC myasthenia gravis, Grave's disease, type I diabetes mellitus, multiple
 CC sclerosis or autoimmune disease. The present sequence is a binding domain
 CC immunoglobulin fusion protein-associated protein sequence. Note: The
 CC sequence data for this patent formed part of the printed specification

CC and is also available in electronic format directly from USPTO at
 CC seqdata.uspto.gov/sequence.html?DocID=20030118592. The authors have not
 CC identified the sequences in the printed specification by their SEQ ID
 CC number therefore none of the sequences can be explicitly identified.

XX SQ Sequence 211 AA;
 SQ Query Match 100.0%; Score 593; DB 7; Length 211;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FEAGAAAGAAAGPEEDLCAAFNVICDVGKDWRLARQLKVSQDKIDSIEDRYPRNLTERV 60
 DB 85 FEAGAAAGAAAGPEEDLCAAFNVICDVGKDWRLARQLKVSQDKIDSIEDRYPRNLTERV 144
 QY 61 RESLRWKTEKENATVAHLVGLRSQCNVLVADLVQEVQQAARDLQNRSGAMSPMS 116
 DB 145 RESLRWKTEKENATVAHLVGLRSQCNVLVADLVQEVQQAARDLQNRSGAMSPMS 200

RESULT 11
 AAR98346
 ID AAR98346 standard; protein; 256 AA.

XX AAR98346;
 XX 13-SEP-1996 (first entry)
 DT MORT-1 modulator of FAS receptor.
 DE MORT-1; HPI; FAS/AP01 receptor; FAS-R; tumour; cancer; HIV;
 KW mediator of receptor toxicity; gene therapy.

XX Homo sapiens.

XX Key Location/Qualifiers
 FH Domain 160..221
 PT /label= Death domain
 XX WO9618641-A1.

XX 20-JUN-1996.
 XX 14-DEC-1995; 95WO-US016542.
 XX 15-DEC-1994; 94IL-00112022.
 PR 19-FEB-1995; 95IL-00112692.
 PR 16-JUL-1995; 95IL-00114615.

XX (YEDA) YEDA RES & DEV CO LTD.
 PA (WEIN/) WEINWURZEL H.

XX Wallach D, Boldin M, Varfolomeev E, Mett I;

XX WPI; 1996-300569/30.
 DR N-PSDB; AAT30372.

XX MORT-1 protein capable of interacting with FAS-R intracellular domain -
 PT useful for modulating FAS-R ligand effect on cells and treating, e.g.
 PT tumour cells and HIV-infected cells.

XX Claim 5; Fig 4; 72pp; English.

XX MORT-1 (AAR98346) (Mediator of Receptor Toxicity), also designated HPI,
 CC is a novel protein that binds to the intracellular domain (FAS-IC) of the
 CC FAS ligand receptor FAS-R (or FAS/AP01), and is capable of modulating the
 CC function of FAS-R. MORT-1 is also capable of self-association and can
 CC activate cell cytotoxicity on its own. Recombinant MORT-1 can be obtd.
 CC from host cells transfected with a vector carrying a cDNA clone
 CC (AAT30372) isolated from HeLa cells. MORT-1 can be used to modulate the
 CC FAS-R ligand on cells carrying an FAS-R. It can also be used to treat
 CC tumour cells or HIV-infected cells, or to raise antibodies

SQ Sequence 256 AA;

Query Match 100.0%; Score 593; DB 2; Length 256;
 Best Local Similarity 100.0%; Pred. No. 2.5e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGPEEDLCAAFNVICDVGKDWRLARQLKVSQDKIDSIEDRYPRNLTERV 60
 DB 130 FEAGAAAGAAAGPEEDLCAAFNVICDVGKDWRLARQLKVSQDKIDSIEDRYPRNLTERV 189
 QY 61 RESLRWKTEKENATVAHLVGLRSQCNVLVADLVQEVQQAARDLQNRSGAMSPMS 116
 DB 190 RESLRWKTEKENATVAHLVGLRSQCNVLVADLVQEVQQAARDLQNRSGAMSPMS 245

RESULT 12
 AAW11894
 ID AAW11894 standard; protein; 256 AA.

XX AAW11894;

XX 25-MAR-2003 (revised)
 DT 29-OCT-1997 (first entry)

XX Modulator of cellular toxicity (MORT-1).

XX MACH; MORT-1 binding protein; mediator of receptor toxicity; cell death;
 KW antibody; FAS ligand receptor; FAS-R; death domain region; septic shock;
 KW tumour necrosis factor; tumour; HIV-infection; oligodendrocyte death;
 KW apoptosis/programmed cell death; p55-R; graft rejection; acute hepatitis;
 KW autoimmune disease; multiple sclerosis; AIDS-inhibited T-cell suicide;
 XX TNF; therapy.

XX Homo sapiens.

XX WO9703998-A1.

XX 06-FEB-1997.

XX 14-JUN-1996; 96WO-US010521.

XX 16-JUL-1995; 95IL-00114615.

XX 17-AUG-1995; 95IL-00114986.

XX 14-SEP-1995; 95IL-00115319.

XX 27-DEC-1995; 95IL-00116588.

XX 16-APR-1996; 96IL-00117932.

XX (YEDA) YEDA RES & DEV CO LTD.

PA (WEIN/) WEINWURZEL H.

XX Wallach D, Boldin M, Goncharov T, Goltsev YV;

XX WPI; 1997-132570/12.

XX N-PSDB; AAT61397.

XX New DNA encoding MACH protein that interacts with MORT-1 protein - to
 PT mediate intracellular effects of FAS or TNF receptors, partic. for
 PT regulating apoptosis in tumours, virus-infected cells etc.

XX Disclosure; Page 102-103; 163pp; English.

XX This sequence represents the mediator of cellular toxicity (MORT-1)
 CC protein. This sequence is bound by the protein of the invention (see
 CC AAW11892), designated MACH. MORT-1 binds to the FAS ligand receptor (FAS-
 CC R) death domain region, and triggers part of the cell death signalling
 CC cascade in mammalian cells. Vectors containing MACH, the MACH protein,
 CC and antibodies (Ab) against it are used to modulate the effect of FAS-R
 CC ligand or TNF on cells that carry FAS-R or p55-R. This is specifically
 CC for treating tumours, HIV-infected cells or other diseased cells, by
 CC control of apoptosis/programmed cell death. The MACH protein is a
 CC mediator of the cell death pathway initiated by TNF and FAS-R binding,
 CC i.e. it mimics or enhances the effect of MORT-1 where increased
 CC cytotoxicity is required. To inhibit the effect of MORT-1, e.g. in cases

Best Local Similarity 99.1%; Pred. No. 5.8e-63;
Matches 115; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGGEEEDLCAAFNVICDNGVKDWRLARQLKVSQKIDSDIEDRYPRNLTERV 60
DB 82 FEAGAAAGAAAGGEEEDLCAAFNVICDNGVKDWRLARQLKVSQKIDSDIEDRYPRNLTERV 141

QY 61 RESLRWKTEKENATVAHLVGLALRSCQNNLVADLVQEVQQAARDLQNRSGAMSPMS 116
DB 142 RESLRWKTEKENATVAHLVGLALRSCQNNLVADLVQEVQQAARDLQNRSGAMSPMS 197

Search completed: February 11, 2005, 16:40:26
Job time : 79 secs

QY 61 RESLRWKTEKENATVAHLVGLALRSCQNNLVADLVQEVQQAARDLQNRSGAMSPMS 116
DB 135 RESLRWKTEKENATVAHLVGLALRSCQNNLVADLVQEVQQAARDLQNRSGAMSPMS 190

RESULT 15
AAW87491
ID AAW87491 standard; protein; 201 AA.
XX
AC AAW87491;
XX
DT 12-FEB-1999 (first entry)
XX
DE Amino acid sequence of MORT1 isoform MORT1del21 from NTERA2 cells.
XX
KW MORT1; MORT1del21; NTERA2; CNS; isoform; death domain; Fas/AP01;
KW MACH alpha1; ICE/Ced3; caspase; anti-apoptotic; gene therapy;
KW in vivo agent; neuronal apoptosis; human.
XX
OS Homo sapiens.
XX
PN WO9849297-A1.
XX
PD 05-NOV-1998.
XX
PF 14-APR-1998; 98WO-US0007439.
XX
PR 25-APR-1997; 97US-0044835P.
XX
PA (AMHP) AMERICAN HOME PROD CORP.
XX
PI Bingham BW, Young KH, Wood AT, Birsan C;
XX
DR N-PSDB; AAV71928.
XX
PT Human, neuronal MORT1 isoform(s) - used as screening agents in
PT diagnosing CNS diseases, and in discovering CNS-specific anti-apoptotic
PT compounds.
XX
PS Claim 5; Page 26-27; 31pp; English.
XX
CC This represents the amino acid sequence of a MORT1 isoform MORT1del21.
CC The encoding cDNA was isolated from NTERA2 cells and deposited under the
CC accession number ATCC 209013. The cDNA has a 21 base pair deletion as
CC compared to the published MORT1 sequence (bp 172-192 of the coding
CC sequence). The invention relates to three MORT1 nucleic acid isoforms
CC (AAV71928 to AAV71930) that encode proteins which can interact with the
CC death domain of Fas/AP01. The MORT1 isoforms can also interact with MACH
CC alpha1 or other members of the ICE/Ced3 (Caspase) family of proteins. The
CC transcrip isoforms, together with their encoded proteins are useful as
CC screening agents in diagnosing CNS diseases, and in discovering CNS-
CC specific anti-apoptotic compounds. They are useful in gene therapy either
CC as in vivo agents in humans or as experimental tools in manipulating
CC neuronal apoptosis in cell culture and animal model systems
XX
SQ Sequence 201 AA;

Query Match 98.8%; Score 586; DB 2; Length 201;
Best Local Similarity 99.1%; Pred. No. 1.3e-62;
Matches 115; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGGEEEDLCAAFNVICDNGVKDWRLARQLKVSQKIDSDIEDRYPRNLTERV 60
DB 75 FEAGAAAGAAAGGEEEDLCAAFNVICDNGVKDWRLARQLKVSQKIDSDIEDRYPRNLTERV 134

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